

AMENDMENTS TO THE CLAIMS

This listing of claims supersedes all prior versions and listings of claims in this application:

LISTING OF CLAIMS:

1. (Currently Amended) An information output apparatus for outputting recording information as well as copy control information to an information recording apparatus for recording the recording information and copy control information into a recording medium, said copy control information indicating the number of times which the recording information can be recorded, said information output apparatus comprising:

a generating device for generating copy control information after a recorded state on the recording medium; and

a multiplexing device for multiplexing the copy control information, which is after the recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded, said copy control information to be indicated after said recording in the recording information apparatus is completed; ~~and~~

~~—— an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium.~~

2. (Original) The information output apparatus according to Claim 1, wherein
the information recording apparatus records the output recording information and copy control information into the recording medium, without modifying the copy control information.

3. (Original) The information output apparatus according to Claim 1, wherein
the copy control information indicates that further recording is prohibited after said recording in the information recording apparatus is completed.

4. (Currently Amended) The information output apparatus according to Claim 1,
wherein
the output device outputs the multiplexed recording information and copy control information to the information recording apparatus through an at least one electric communication line.

5. (Currently Amended) The information output apparatus according to Claim 4,
wherein
the at least one electric communication line is ~~at least~~ any ~~one~~ of the Internet line, a ground wave digital line, a satellite communication line, and a cable television line.

6. (Currently Amended) The information output apparatus according to Claim 1, wherein

the output device further comprises a converting device for converting the multiplexed recording information and copy control information into a recording information and a copy control information in conformity with a recording format used for recording the information into the recording medium in the information recording apparatus, ~~to output~~ and for outputting the converted information to the information recording apparatus, when outputting the multiplexed recording information and copy control information to the information recording apparatus at the output speed.

7. (Currently Amended) An information recording apparatus for recording copy control information and recording information into a recording medium, said copy control information and recording information output from an information output apparatus for outputting the recording information as well as the copy control information indicating the number of times the recording information can be recorded, to the information recording apparatus, said information output apparatus comprising:

a generating device for generating copy control information after a recorded state on the recording medium; and

a multiplexing device for multiplexing, which is after a recorded state on the recording medium, the copy control information and the recording information, said copy control information indicating said number of times which the recording information can be recorded,

said copy control information to be indicated after said recording in the recording information apparatus is completed;

and an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium, said information recording apparatus comprising:

an obtaining device for obtaining the output recording information and copy control information; and

a recording device for recording the obtained recording information and copy control information into the recording medium, without modifying the copy control information.

8. (Original) The information recording apparatus according to Claim 7, wherein the recording device records the recording information and copy control information in conformity with the recording format into the recording medium, without modifying the copy control information, when the recording information and copy control information is output at the output speed.

9. (Currently Amended) An information output recording system including an information output apparatus for outputting recording information as well as copy control information indicating the number of times the recording information can be recorded, and an information recording apparatus, wherein

said information output apparatus comprises:

a generating device for generating copy control information after a recorded state on the recording medium; and

a multiplexing device for multiplexing the copy control information, which corresponds to an after a recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded to be indicated after said recording in the recording information apparatus is completed; and

~~an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium, and~~

said information recording apparatus ~~comprises:~~ comprising:

an obtaining device for obtaining the output recording information and the copy control information; and

a recording device for recording the obtained recording information and copy control information into the recording medium, without modifying the obtained copy control information.

10. (Currently Amended) An information output recording system including an information output apparatus for outputting recording information as well as copy control

information indicating the number of times the recording information can be recorded, and an information recording apparatus, wherein

said information output apparatus comprises:

a multiplexing device for multiplexing the copy control information and the recording information, said copy control information indicating said number of times, to be indicated after said recording in the recording information apparatus is completed, which the recording information can be recorded; and

an output device for outputting the multiplexed recording information and copy control information to an obtaining device at an output speed higher than a reproducing speed of the recording information from the recording medium, and

said information recording apparatus comprises:

the obtaining device for obtaining the output recording information and copy control information to output the same to the information recording apparatus; and

a recording device for recording the output recording information and copy control information into the recording medium, without modifying the copy control information.

11. (Currently Amended) The information output recording system according to Claim 10, wherein

said information recording apparatus comprises:

a recognizing device for mutually recognizing ~~the~~ a type of the devices device between the obtaining device and the information recording apparatus; and

a recording control device for controlling the recording device so as to record the recording information and copy control information into the recording medium, only when recognizing that the recording information and the copy control information has been output at the higher output speed from the obtaining device, based on the recognition result in the recognizing device.

12. (Original) The information output recording system according to Claim 10, wherein the obtaining device outputs the obtained recording information and copy control information to the information recording apparatus at the output speed, after performing encryption processing corresponding to only the output speed.

13. (Currently Amended) The information output recording system according to Claim 12, wherein

said information recording apparatus comprises:

a determination device for determining whether or not the recording information and copy control information has been output from the obtaining device, according to the encryption processing in the output recording information and copy control information, and

a recording control device for controlling the recording device so as to record the recording information and copy control information into the recording medium, only when it ~~proves~~ finds that the recording information and copy control information has have been output

from the obtaining device at the higher speed, according to the determination result in the determination device.

14. (Currently Amended) The information output recording system according to Claim 12, wherein

said information recording apparatus further comprises:

a decoding device for decoding the output recording information and the copy control information; and

a recording encryption device for recording the decoded output recording information and copy control information into the recording medium, after performing the ~~predetermined~~ encryption processing for recording on ~~the~~ information.

15. (Original) The information output recording system according to Claim 9, wherein the copy control information indicates that further recording is prohibited after said recording in the information recording apparatus is completed.

16. (Currently Amended) The information output recording system according to Claim 9, wherein

the output device outputs the multiplexed recording information and copy control information to the obtaining device through an at least one electric communication line.

17. (Currently Amended) The information output recording system according to Claim 16, wherein

the at least one electric communication line is ~~at least any one~~ of the Internet line, a ground wave digital line, a satellite communication line, and a cable television line.

18. (Currently Amended) An information output method for outputting recording information as well as copy control information to an information recording apparatus for recording the recording information and copy control information into a recording medium, said copy control information indicating the number of times the recording information can be recorded, the method comprising:

a generating process for generating copy control information after a recorded state on the recording medium; and

a multiplexing process for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded to be indicated after said recording in the recording information apparatus is completed; ~~and~~

~~an output process for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium.~~

19. (Original) The information output method according to Claim 18, wherein

the information recording apparatus records the output recording information and copy control information into the recording medium, without modifying the copy control information.

20. (Original) The information output method according to Claim 18, wherein the copy control information indicates that further recording is prohibited after said recording in the information recording apparatus is completed.

21. (Currently Amended) The information output method according to Claim 18, wherein in the output process, the multiplexed recording information and copy control information is output to the information recording apparatus through an at least one electric communication line.

22. (Currently Amended) The information output method according to Claim 21, wherein the at least one electric communication line is ~~at least any one of~~ the Internet line, a ground wave digital line, a satellite communication line, and a cable television line.

23. (Original) The information output method according to Claim 18, wherein the output process further comprises a converting process for converting the multiplexed recording information and copy control information into a recording information and copy con-

trol information in conformity with a recording format used for recording the information into the recording medium in the information recording apparatus, to output the converted information to the information recording apparatus, when outputting the multiplexed recording information and copy control information to the information recording apparatus at the output speed.

24. (Currently Amended) An information recording method for recording copy control information and recording information into a recording medium, said copy control information and recording information output by the information output method for outputting the recording information as well as the copy control information indicating the number of times the recording information can be recorded, to the information recording apparatus for recording the recording information and copy control information into the recording medium, said information output method comprising:

a generating process for generating copy control information after a recorded state on the recording medium; and

a multiplexing process for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded to be indicated after said recording in the recording information apparatus is completed; and an
~~output process for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing~~

~~speed of the recording information from the recording medium~~, said information recording method comprising:

an obtaining process for obtaining the output recording information and copy control information; and

a recording process for recording the obtained recording information and copy control information into the recording medium, without modifying the copy control information.

25. (Currently Amended) The information recording method according to Claim 24, wherein

in the recording process, the recording information and copy control information are in conformity with the recording format into the recording medium, without modifying the copy control information, when the recoding information and the copy control information ~~has~~ have been output at the output speed.

26. (Currently Amended) An information output recording method including an information output method for outputting recording information as well as copy control information indicating the number of times the recording information can be recorded, and an information recording method, wherein

said information output method comprises:

a generating process for generating copy control information after a recorded state on the recording medium; and

a multiplexing process for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded to be indicated after said recording in the recording information apparatus is completed; and

~~an output process for outputting the multiplexed recording information and copy control information at an output speed higher than a reproducing speed of the recording information from the recording medium, and~~

said information recording method comprises:

an obtaining process for obtaining the output recording information and copy control information; and

a recording process for recording the obtained recording information and copy control information into the recording medium, without modifying the copy control information.

27. (Currently Amended) An information output recording method including an information output method for outputting recording information as well as copy control information indicating the number of times the recording information can be recorded, and an information recording method, wherein

said information output method comprises:

a generating process for generating copy control information after a recorded state on the recording medium; and

a multiplexing process for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times which the recording information can be recorded to be indicated after said recording in the recording information apparatus is completed; and

~~an output process for outputting the multiplexed recording information and copy control information to an information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium, and~~

said information recording method comprises:

an obtaining process for obtaining ~~the~~ output recording information and copy control information to output the ~~same~~ the output recording information and copy control information to the information recording apparatus; and

a recording process for recording the output recording information and copy control information into the recording medium, without modifying the copy control information.

28. (Currently Amended) The information output recording method according to Claim 27, wherein

said information recording method further comprises

a recognizing process for mutually recognizing a type of ~~the devices~~ device between an obtaining device for executing the obtaining method and the information recording apparatus, and

in the recording process, the recording information and the copy control information is are recorded into the recording medium, only when it is recognized that the recording information and the copy control information ~~has~~ have been output at the higher output speed from the obtaining device, based on the ~~recognition result~~ recognized type in the recognizing process.

29. (Currently Amended) The information output recording method according to Claim 27, wherein

in the obtaining process, the obtained recording information and copy control information is are output to the information recording apparatus at the output speed, after performing encryption processing corresponding to only the output speed.

30. (Currently Amended) The information output recording method according to Claim 29, wherein

said information recording method comprises

a determining process for determining whether or not the recording information and the copy control information ~~has~~ have been output from the obtaining device, according to the encryption processing in the output recording information and copy control information, and

in the recording process, the recording information and the copy control information is are recorded into the recording medium, only when ~~it proves~~ recognizing that the recording

information and copy control information ~~has~~ have been output from the obtaining device at the higher speed, according to the decision result in the determining process.

31. (Original) The information output recording method according to Claim 29, wherein said information recording method further comprises:

a decoding process for decoding the output recording information and copy control information; and

a recording encryption process for recording the decoded recording information and copy control information into the recording medium, after performing ~~the~~ an predetermined encryption processing for recording on ~~the~~ information.

32. (Currently Amended) An information recording medium in which an output control program recorded in a readable way by an output control computer included in an information output apparatus for outputting recording information as well as copy control information to an information recording apparatus for recording the recording information and copy control information into a recording medium, said copy control information indicating the number of times the recording information can be recorded, wherein the output control program causes the output control computer to function as:

a generating device for generating copy control information after a recorded state on the recording medium; and

a multiplexing device for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times to be indicated after said recording in the recording information apparatus is completed;~~and~~

~~an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium.~~

33. (Currently Amended) The information recording medium according to Claim 32, wherein

the information recording apparatus records ~~the~~ output recording information and copy control information into the recording medium, without modifying the copy control information.

34. (Original) The information recording medium, according to Claim 32, wherein
the copy control information indicates that further recording is prohibited after said recording in the information recording apparatus is completed.

35. (Original) The information recording medium, according to Claim 32, wherein
the output device outputs the multiplexed recording information and copy control information to the information recording apparatus through an electric communication line.

36. (Currently Amended) The information recording medium, according to Claim 35, wherein

the electric communication line is ~~at least~~ any one of the Internet line, a ground wave digital line, a satellite communication line, and a cable television line.

37. (Original) The information recording medium according to Claim 32, wherein the output control program causes the output control computer to further function as a converting device for converting the multiplexed recording information and copy control information into a recording information and copy control information in conformity with a recording format used for recording the information into the recording medium in the information recording apparatus, to output the converted information to the information recording apparatus, when outputting the multiplexed recording information and copy control information to the information recording apparatus at the output speed.

38. (Currently Amended) An information recording medium in which a recording control program recorded in a readable medium by a recording control computer included in the information recording apparatus for recording copy control information and recording information into a recording medium, said copy control information and recording information output from an information output apparatus for outputting the recording information as well as the copy control information indicating the number of times the recording information can be recorded, to the information recording apparatus, said information output apparatus comprising:

a generating device for generating copy control information after a recorded state on the recording medium; and

a multiplexing device for multiplexing the copy control information, which is after recorded state on the recording medium, and the recording information, said copy control information indicating said number of times to be indicated after said recording in the recording information apparatus is completed; and

~~an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium~~, said recording control program causes the output control computer to function as:

an obtaining device for obtaining the output recording information and copy control information; and

a recording device for recording the obtained recording information and copy control information into the recording medium, without modifying the copy control information.

39. (Currently Amended) The information recording medium according to Claim 38, wherein

the recording device records the recording information and copy control information in conformity with the recording format into the recording medium, without modifying the copy control information, when the recoding information and copy control information ~~has~~ have been output at the output speed.

40. (Currently Amended). A computer ~~data~~ signal, embodied in a carrier wave and representing a sequence of instructions, which is executed by a an output control computer included in an information output apparatus for outputting recording information as well as copy control information to an information recording apparatus for recording the recording information and copy control information into a recording medium, said copy control information indicating the number of times the recording information can be recorded, said instructions comprising the steps of:

multiplexing the copy control information and the recording information, said copy control information indicating said number of times to be indicated after said recording in the recording information apparatus is completed; and

outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium.

41. (Original) The computer data signal embodied in a carrier wave and representing a sequence of instructions according to Claim 40, wherein

the information recording apparatus records the output recording information and copy control information into the recording medium, regardless of the content of the copy control information.

42. (Original) The computer data signal embodied in a carrier wave and representing a sequence of instructions according to Claim 40, wherein

the copy control information indicates that further recording is prohibited after said recording in the information recording apparatus is completed.

43. (Original) The computer data signal embodied in a carrier wave and representing a sequence of instructions according to Claim 40, wherein

the output device outputs the multiplexed recording information and copy control information to the information recording apparatus through an electric communication line.

44. (Currently Amended) The computer data signal embodied in a carrier wave and representing a sequence of instructions according to Claim 43, wherein

the electric communication line is ~~at least~~ any ~~one~~ of the Internet line, a ground wave digital line, a satellite communication line, and a cable television line.

45. (Currently Amended) The computer data signal embodied in a carrier wave and representing a sequence of instructions according to Claim 40, wherein said instructions further ~~comprises~~ comprise the step of

converting the multiplexed recording information and copy control information into a recording information and copy control information in conformity with a recording format used for recording the information into the recording medium in the information recording apparatus,

to output the converted information to the information recording apparatus, when outputting the multiplexed recording information and copy control information to the information recording apparatus at the output speed.

46. (Currently Amended) A computer ~~data~~-signal, embodied in a carrier wave and representing a sequence of instructions, which is executed by a recording control computer included in the information recording apparatus for recording copy control information and recording information into a recording medium, said copy control information and recording information output from an information output apparatus for outputting the recording information as well as the copy control information indicating the number of times the recording information can be recorded, to the information recording apparatus, said information output apparatus comprising:

a multiplexing device for multiplexing the copy control information and the recording information, said copy control information indicating said number of times to be indicated after said recording in the recording information apparatus is completed; and an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium; and ~~and~~ ~~said~~ instructions comprising the steps of:

obtaining the output recording information and copy control information; and

recording the obtained recording information and copy control information into the recording medium, regardless of the content of the copy control information.

47. (Currently Amended) The computer data signal, embodied in a carrier wave and representing a sequence of instructions according to Claim 46, wherein

the step of recording records the recording information and copy control information conformable to the recording format into the recording medium, regardless of the content of the copy control information, when the recoding information and copy control information ~~has~~ have been output at the output speed.

Please add the following new claims:

48. (New) The information output apparatus according to Claim 1, further comprising:
an output device for outputting the multiplexed recording information and copy control information to the information recording apparatus at an output speed higher than a reproducing speed of the recording information from the recording medium.

49. (New) The information output apparatus according to Claim 1, further comprising:
an encryption method changing device for changing encryption method on the basis of outputted information speed.

50. (New) The information recording apparatus according to Claim 8, further comprising:

an encryption method detecting device for detecting encryption method of inputted information; and

a switching device for switching the inputted information on the basis of the detected encryption method.